The Electric Power Water Heater Models Feature:

- 150 psi ASME Code Glass-Lined Tank
- ASME Temperature and Pressure Relief Valve
- Internal Fusing (above 120 amps)
- Incoloy Heating Elements
- Painted Steel Jacket
- Magnesium Anode Rods
- Immersion Thermostats
- Magnetic Contactors
- Digital Temperature Display
- Manual Reset High Limit
- Hinged Door with Keyed Lock
- Channel Iron Skid Base
- Approved for 180°F Operation
- Lifting Lug access

Optional Equipment Features:

- BMS Contacts
- Low Water Cut-off
- Pilot Lights and Manual Limiting Switches
- Electric Step Controller (36kW & higher)
- Alarm Bell
- Shunt Trip Disconnect *
- Low Pressure Switch
- High Pressure Switch
- Time Clock (7 Day)
- Time Clock (24 Hour)
- Safety door interlock
- T&P gauge
- 12” x 16” Manhole (250 Gallons and Larger)

* Separate mounting

Ultonium Glass Lining = 3 Year Limited Tank Warranty
Double Ultonium Glass Lining = 6 Year Limited Tank Warranty
For products installed in USA, Canada and Puerto Rico. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.
Commercial Vertical Round Electric Power Water Heater

Standard Equipment Features:

Energy-Saving Performance - High-density closed cell foam insulation is used to meet the demanding ASHRAE 90.1b current standard for minimizing heat loss. This requirement, allowing a maximum 4 watts per square foot of tank surface energy loss, offers big savings and operating efficiency.

Magnetic Contactors with Immersion Thermostats - 120 volt control circuit with built in transformer. Elements are thermostatically controlled in 54kW (max) increments.

Low Watt Density Incoloy Elements - Incoloy elements are used by Niles Steel Tank because of their many superior characteristics to copper-sheathed elements in rigorous water heating applications. This tough alloy successfully resists the effects of prolonged high operating temperatures, hard water, acids, corrosion and thermal shock. Their nominally higher initial cost is more than off-set by much longer life expectancies and reduced service and replacement costs. Incoloy elements are designed to “burn in air” to prevent failures caused by water void.

Internal Fusing - All elements and circuits are fused in 48 amp increments, providing complete electrical protection. Cartridge type fuses are rated at 200,000 ampere interrupting capacity.

Glass-Lined Tank - Ultonium glass is applied to the inside surface of the steel tank and fired to 1600°F. (All models are constructed in accordance with the ASME code and approved for 150 psi working pressure).

Digital Temperature Display - Easy to read digital temperature display located on front cabinet.

Magnesium Anode Protection - Provides anodic protection against corrosion of the tank due to electrolysis.

Painted Jacket - Polyester painted steel jacket is coated on both sides and beautifully finished in durable finish. This combines attractive appearance with maximum protection.

Hinged Door with Key Lock - Quality requires full length hinged doors for ease of inspection and maintenance. Keyed door lock provides additional safety and security at no charge.

Temperature and Pressure Relief Valve - Factory provided ASME rated relief valve protects against excessive temperature and/or pressure buildup within the tank.

Terminal Block Connections - Easy and safe wiring connections are made possible by factory installed terminal blocks.

Inspection Opening - Provides easy access to the heater interior for inspection and cleaning.

Three-Year Limited Warranty - Provides warranty protection against tank failure resulting from defects in material and workmanship.

Terminal Block Connections - Easy and safe wiring connections are made possible by factory installed terminal blocks.

Optional Equipment Features:

180°F Temperature Operation - Every Electric Power Water Heater is approved for 180°F operation for sanitizing and other high-temperature requirements.

A - BMS Contacts - Building Management System Interface

B - Low Water Cut-off - Prevents energizing of the heater when not filled with water or upon low water condition.

C - Pilot Lights and Manual Limiting Switches - With indicating lights - permits manual limitation of heating input by switching off current to each contactor.

D - Electric Step Controller (36kW & higher) - Electronic sequencing of thermostats.

E - Alarm Bell - Warns of various failures.

F - Shunt Trip Disconnect * - Provides maximum protection by interrupting all power to the system in the event of a control sensed malfunction or over current.

G - Low Pressure Switch - Turns off control circuit when water pressure drops below a set minimum.

H - High Pressure Switch - Turns off control circuit when water pressure exceeds a set maximum.

J - 7 Day Clock - To control off/on cycles of the heater as programmed by the owner or electric utility requirement.

K - 24 Hour Clock - To control on/off cycles in 24 hr. cycles.

L - Safety Door Interlock - Prevents opening of access door while heater is energized.

M - Temperature and Pressure Gauges - Jacket mounted for convenient viewing.

N - Manway - Provides means to easily remove sediment from heater, available on 250 gallon and larger.

6DG - Double Ultonium Glass Lining - Offers a 6 year limited warranty

* Separate Mounting

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### Commercial Vertical Round Electric Power Water Heater

#### Specifications

- **Jacket Dia.**
- **Floor to Cold Water Inlet**
- **Floor to Top of Heater**
- **Depth**
- **Water Connection**
- **Approx. Ship Weight**

#### Model Numbers and Capacities

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Gallon Capacity</th>
<th>Maximum kW</th>
<th>A - Floor to Top of Heater</th>
<th>B - Jacket Dia.</th>
<th>C - Floor to Cold Water Inlet</th>
<th>D - Depth</th>
<th>E - Back of Heater to Hot Water Outlet</th>
<th>Water Connection</th>
<th>Approx. Ship Weight</th>
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<tbody>
<tr>
<td>JEV150 - <em>(kW)</em></td>
<td>150</td>
<td>90</td>
<td>67 1/2&quot;</td>
<td>32</td>
<td>12.75&quot;</td>
<td>38 3/4&quot;</td>
<td>16&quot;</td>
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<td>650</td>
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<td>JEV200 - <em>(kW)</em></td>
<td>200</td>
<td>162</td>
<td>80&quot;</td>
<td>32</td>
<td>12.75&quot;</td>
<td>38 3/4&quot;</td>
<td>17&quot;</td>
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<td>JEV250 - <em>(kW)</em></td>
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<td>162</td>
<td>92&quot;</td>
<td>34</td>
<td>16.88&quot;</td>
<td>40 3/4&quot;</td>
<td>17&quot;</td>
<td>1 1/2&quot;</td>
<td>1165</td>
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<tr>
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<td>162</td>
<td>92&quot;</td>
<td>34</td>
<td>16.88&quot;</td>
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<td>2 1/2&quot;</td>
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<td>29&quot;</td>
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<td>82 3/4&quot;</td>
<td>38&quot;</td>
<td>3&quot;</td>
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</tbody>
</table>

**Note:** Vertical round models above 90kW at 208V, 240V or 380V, and 162kW at 400V or 480V, exceed the capacity of a single control panel and may require multiple control panels. Consult the factory for specific details and optional construction.

#### Available Voltages

- A - 240V, 1ph
- B - 240V, 3ph
- J - 208V, 1ph
- K - 208V, 3ph
- Q - 400V, 3ph
- W - 277V, 1ph
- X - 480V, 3ph
- Y - 380V, 3ph
- Z - 415V, 3ph
- N - 600V, 3ph
## Typical Specifications

Water Heaters shall be Niles Steel Tank Electric Power Water Heater Series model number ________________, with __________ gallons of storage capacity, rated at _______ Kilowatts, __________ Volts, _______ Phase.

Heater to be completely insulated and jacketed for vertical installation.

The jacket shall be round painted steel with durable finish. Control panel shall have a full length hinged access door with keyed lock. Tank insulation shall be closed cell high density foam sufficient to meet ASHRAE 90.1b. Keyed Locked Door provides additional safety and security.

Tank construction shall be 150 psi maximum allowable working pressure and be ASME stamped and National Board listed. All tanks are to be lined with Ultronium superior glass lining, fired at 1600°F (871°C) by a process which provides a molecular interchange of glass and steel. Electric Power Water Heater Series shall include the following standard features: magnetic contactors with immersion thermostats, digital temperature display, internal fusing for control and load circuits, low-watt density Incoloy sheath elements, magnesium anode rods, ASME rated temperature and pressure relief valve, terminal block wiring, 180°F (82°C) water temperature approval, 3-year limited warranty.

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### Custom Manufacturing

Hybrid Hot Water Generator/Power Electric Water Heater

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**rev.07.2017.11 Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.**